

CLAIM(S)

What is claimed is:

1. Process comprising pyrolyzing hydrochlorofluorocarbon or hydrofluorocarbon to fluoromonomer, said pyrolyzing being carried out in a reaction zone lined with mechanically supported nickel.
2. The process of claim 1 wherein said hydrochlorofluorocarbon includes chlorodifluoromethane.
3. The process of claim 2 wherein said hydrochlorofluorocarbon also includes $\text{CF}_2\text{ClCF}_2\text{H}$.
4. The process of claim 1 wherein said pyrolysis is carried out to a conversion of said hydrochlorofluorocarbon of about 10 to 50%.
5. The process of claim 1 wherein said pyrolysis is carried out at a temperature of about 600°C to 750°C , with the proviso that when said hydrofluorocarbon is being pyrolyzed the temperature is about 750°C to 900°C .
6. The process of claim 1 wherein said pyrolysis is carried out at a residence time in said reaction zone of less than about 0.1 second, with the proviso that when said hydrofluorocarbon is being pyrolyzed the residence time is less than about 2 seconds.
7. The process of claim 1 wherein said fluoromonomer includes tetrafluoroethylene.
8. The process of claim 1 wherein said reaction zone is tubular in cross-section and the mechanical support for said nickel lining is a metal jacket for said lining.
9. The process of claim 1 wherein said reaction zone is annular in cross-section.
10. The process of claim 1 wherein said reaction zone has a volume of at least about 0.04 m^3 .
11. The process of claim 1 wherein said reaction zone has a length of at least about 8 m.